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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,861	08/04/2003		Shin-Ichi Nakao	116772 4617	
25944	7590	01/25/2005		EXAMINER	
OLIFF & B		SE, PLC	LE, HOA T		
P.O. BOX 19928 ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER
·				1773	

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Annilannila					
	Application No.	Applicant(s)					
	10/632,861	NAKAO ET AL					
Office Action Summary	Examiner	Art Unit					
	H. T. Le	1773					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	_•						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowant closed in accordance with the practice under E	·						
Disposition of Claims							
4)⊠ Claim(s) <u>3,4,7,9-11 and 16-22</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 3,4,7,9-11 and 16-22 is/are rejected.	<u> </u>						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	•						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	Irawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior							
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	of the certified copies not received	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	ate atent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:	.,					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 3, 4, 7, 9-11, and 16-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 is confusing as it appears that both the "grafted polymers" and the "inclusion" in the solution filled in the pores of the functional particle, but it's unclear where the grafted polymers and the inclusion are relatively to each other in the functional particle. Are they both impregnated in the pores? Or are the grafted polymers on the surface while the inclusion is contained in the inner pores (this scenario seems to be suggested through the drawings but not so clear in the claim). The 6th paragraph (lines 15-17) of the claim is confusing because of what appears to be a grammatical error; that is subject-verb disagreement. It is unclear what is "shrunk or hydrophilic". If it is the grafted polymers (as described in the instant specification), "is" should be changed to "are". Same deficiency is found at the 8th paragraph (lines 20-21). It is also unclear as to the relationship between the "inclusion-impregnated functional particle" and the subject matter of the claim, the "functional particle". In addition, it's unclear how the inclusion becomes "inserted" or "impregnated" in the particle.

The preamble of claim 4 is somewhat confusing. It's unclear what "having graft polymerization yield" means. Line 3, it's unclear what is "controlled by adjusting a reduced pressure". The rest of the claim is totally confusing. If this is meant to be a product-by-

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process claim (as it appears to be), it is suggested that the phrase "obtained by a process comprising" (or similar language) be employed and process steps be subsequently recited for clarity.

In claim 7, for clarity, it is suggested that the process steps be affirmatively recited in active voice instead of having them in passive voice as here. the phrase "said plasmas irradiated particle is soaked in a monomer solution" would have been clearer if converted to active voice such as "soaking said plasma irradiated particle in a monomer solution".

Same suggestion is applied to claims 9 and 10.

In claims 17 and 18, "high density" and "low density" render the claims indefinite because "high" and "low" are relative terms and there's no basis to ascertain the metes and bounds of "high" and "low" density.

Claims 19 and 20 suffer the same deficiency of claims 17 and 18.

Claims 21 and 22 are unclear.

Other claims are deemed indefinite in view of their dependency upon claim 3 or 4.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 10:00 a.m. to 6:30 p.m., Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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H.T.Le

Primary Examiner Art Unit 1773
